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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/091,694

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Bruce E. Lavigne

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HEWLETT-PACKARD COMPANY

Intellectual Property Administration

P.O. Box 272400

Fort Collins, CO 80527-2400

EXAMINER

ABELSON, RONALD B

ART UNIT

PAPER NUMBER

2666

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. <u>10/091,694</u>	Applicant(s) LAVIGNE ET AL.	
	Examiner Ronald Abelson	Art Unit 2666	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 March 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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Claim Objections

1. Claim 10 is objected to because of the following informalities: On line 6, "on" should be changed to "one". Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-5, 10, 11, 13, 15, 16, and 19-25 rejected under 35 U.S.C. 102(e) as being anticipated by McCloghrie (US 6,920,112).

Regarding claims 1, 10, 19, and 23, McCloghrie teaches a processor (fig. 1 box 120, col. 3 lines 31-34).

McCloghrie teaches an input interface for receiving a plurality of packets coupled to the processor (fig. 1 element 111, col. 3 lines 31-34), the input interface comprising at

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least one input port wherein at least one said input port is configured to sample at least one input packet and transmit a sampled input packet to the processor (fig. 1 box 111, sampling of packets occurs at input interfaces 111, forwards sampled packets to another portion of traffic management element 120, col. 3 lines 42-52).

McCloghrie teaches an output interface for transmitting a plurality of packets coupled to the processor (fig. 1 element 112, col. 3 lines 31-34), the output interface comprising at least one output port wherein at least one said output port is configured to sample at least one output packet and transmit a sampled output packet to the processor (fig. 1 box 112, sampling of packets occurs at output interfaces 112, forwards sampled packets to another portion of traffic management element 120, col. 3 lines 42-52).

McCloghrie teaches a switching fabric coupled to the input interface and the output interface, the switching fabric configured to transmit a packet between the input interface and output interface (fig. 1 box 110, col. 3 lines 22-29).

Regarding claim 23, in addition to the limitations previously addressed, a computer-readable memory coupled to said input interface and said output interface (fig. 1 box 130, col.

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4 lines 1-5) and a microcontroller coupled to said input interface and said output interface, said microcontroller for executing a method of sampling a packet (fig. 2 Sampling CTRLR, col. 4 lines 19-21).

Regarding claims 2, 11, 21, McCloghrie teaches at least one said input port comprises a countdown register, wherein said input port is configured to sample a packet according to said countdown register (fig. 1 box 111, sampling of packets occurs at the input interfaces, col. 3 lines 42-45, sample one out of every N packets, col. 4 lines 41-43).

Regarding claims 3, 13, 20, McCloghrie teaches at least one said output port comprises a countdown register, wherein said output port is configured to sample a packet according to said countdown register (fig. 1 box 112, sampling of packets occurs at the output interfaces, col. 3 lines 42-45, sample one out of every N packets, col. 4 lines 41-43).

Regarding claims 4 and 22, the processor (fig. 1 box 120, fig. 2 box 120) transmits said sampled input packet and said sampled output packet to a central control station (fig. 2 see transmission of packet from box 250 to 260, col. 5 lines 62-65)

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over a network. The examiner corresponds applicant's central control station with the Type Detector and Frequency Measure (fig. 2 box 260, 270) of the reference and the applicant's network with the connection from box 250 to 260 in the reference.

Regarding claim 5, the central control station comprises a statistical monitoring station (fig. 2 box 270, col. 6 lines 8-13).

Regarding claim 15, the processor (fig. 1 box 120, fig. 2 box 120) transmitting said sampled input packet (fig. 1,2 box 120, col. 5 lines 62-65) to a statistical monitoring station (fig. 2 box 270, col. 6 lines 8-13) over a network (see connection from box 250 to 260).

Regarding claim 16, the processor (fig. 1 box 120, fig. 2 box 120) transmitting said sampled output packet (fig. 1,2 box 120, col. 5 lines 62-65) to a statistical monitoring station (fig. 2 box 270, col. 6 lines 8-13) over a network (see connection from box 250 to 260).

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Regarding claims 24 and 25, the microcontroller transmitting said sampled incoming/outgoing packet to a statistical monitoring station (fig. 2 box 270) over a network (see the connection from box 250 to 260).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35

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U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 8, 9, 12, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCloghrie as applied to claims 2, 3, 11, and 10 respectively above, and further in view of Dean (US 6,442,585).

Regarding claims 8, 9, 12, and 14, although McCloghrie teaches a countdown register, the reference is silent on a random number countdown register.

Dean teaches a random number countdown register (fig. 2 box 265, countdown register, random sampling, col. 7 lines 31-37).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of McCloghrie by replacing the countdown registers at the input and output ports with a random number countdown register as suggested by Dean. This modification would benefit the system by providing for improved statistical sampling.

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7. Claim 6, 7, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCloghrie as applied to claims 1, 1, 10, and 10 respectively above, and further in view of Chen (US 6,658,006).

Regarding claims 6 and 17, McCloghrie is silent on the sampled input packet comprises an identification of the input port that sampled the sampled input packet.

Chen teaches a method for modifying the header bits of an incoming packet to identify the input port (col. 1 lines 48-51).

Regarding claim 7 and 18, McCloghrie is silent on the sampled output packet comprises an identification of the output port that sampled the sampled input packet.

Chen teaches a method for modifying the header bits of a packet to identify the output port (col. 1 lines 51-55).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of McCloghrie by incorporating within the input and output ports logic to modify the header bits to identify the respective input/output ports. This modification can be performed according to the teachings of Chen. This information could be useful in load balancing.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (571) 272-3165. The examiner can normally be reached on M-F.

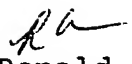
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Ronald Abelson
Examiner
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